U. S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT ASSISTANT SECRETARY FOR HOUSING-FEDERAL HOUSING COMMISSIONER

Series and Series Number: (Supersedes issue dated February 27, 1992)

MATERIALS RELEASE

NO. 951e

ISSUE DATE October 26, 1995

REVIEW DATE October 26, 1998

TO: DIRECTORS, SINGLE FAMILY DIVISION

SUBJECT: 1. Product

"Gyp-Crete" Underlayment System

2. Name and Address of Manufacturer Maxxon Corp. 920 Hamel Road Hamel, MN 55340

Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement, approval or acceptance by HUD of the described product, and any statement or representation, however made, indicating such approval, endorsement or acceptance by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

<u>USE</u>: Interior floor underlayment

DESCRIPTION:

"Gyp-Crete Underlayment System" is a nonstructural material for use on wood, plywood, and concrete subfloors covered with carpet, tile or other floor coverings. The Gyp-Crete Underlayment System" is a mixture of gypsum, Portland cement, sand, and water.

There are 2 types of Gyp-Crete: SYSTEM 1 (Gyp-Crete) and SYSTEM 2 (Gyp-Crete 2000). System 2 is denser and has a higher strength than System 1.

PHYSICAL PROPERTIES:

Density 100 pcf min. SYSTEM 2 110 pcf min.

Compressive strength 1000 psi min. Type A -1250 psi min. Type B -1500 psi min.

Type C -2000 psi min.

Test cubes shall be formed for each installation, and tested in compliance with ASTM C-472.

The "Gyp-Crete Underlayment Systems" shall be installed in strict compliance with the manufacturer's printed specifications, by a contractor authorized by Maxxon Corp., using mixing and pumping equipment authorized by Maxxon The result of the second of th Corp. THE COURT OF THE PARTY AND

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Subfloor 1.

The subfloor shall be structurally sound, broom clean, and free of mud, oil, grease, or other contaminants. To prevent leakage, all cracks and voids shall be filled with a quick setting topping or caulking compound approved by Maxxon Corp.

Finish Flooring 2.

The finish flooring shall not be installed until the specified mix has cured as prescribed in the installation specification. During this period, the dwelling should maintain a minimum temperature of 55°F with adequate ventilation.

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All wood subfloors shall be primed with Maxxon Floor Primer. On new wood, one coat of latex primer shall be sprayed on at a rate of 1 gallon per 300 sq. ft. over the entire surface. On new or old concrete, a sealer is not necessary; however, all concrete subfloors shall be primed with Maxxon Floor Primer.

4. Patching

Holes or minor surface irregularities shall be patched using a latex patching material which has been approved by Maxxon Corp.

MATERIALS:

, , . All materials shall be approved by Maxxon Corp.

1. "Gyp-Crete"

"Gyp-Crete" shall consist of calcined gypsum containing not less than 90% by weight of calcium sulfate hemihydrate, as specified in ASTM C-28 for Gypsum Plasters, and up to 10% Portland Cement Type 5 as specified in ASTM C-150. Minute amounts of retarder can be added to ensure adequate workability.

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2. Sand

Washed mason, mortar or plaster sand (1/8" sieve size or less) shall be used in accordance with Gyp-Crete Sand Specification 101.

3. Water

The water shall be clean, free from oil, acid, alkali, vegetable matter, or impurities that affect the setting of gypsum.

MIXING INSTRUCTIONS:

System 1 (Gyp-Crete):

The mixture proportions are: 80 pounds of Gyp-Crete (one bag), 2.1 cubic feet of sand and 6 to 8 gallons of water. The finished Gyp-Crete weighs approximately 8.5 to 9 pounds per square foot per inch of thickness.

System 2 (Gyp-Crete 2000):

Gyp-Crete 2000 weighs approximately 9.5 to 9.75 pound per square foot per inch of thickness. Gyp-Crete 2000 is available in three different mixture proportions:

The mixture proportions are:

- Type A: 2.1 Mix Design Gyp-Crete 2000 for multi-family housing (not for pours of 1/2" or less in depth): 80 pounds of Gyp-Crete 2000 (one bag) 2.1 cubic feet of sand 4 to 6 gallons of water
- Type B: 1.8 Mix Design Gyp-Crete 2000 for single-family housing (not for use on pours of 1/2" or less in depth):
 80 pounds of Gyp-Crete 2000 (one bag)
 1.8. cubic feet of sand
 4 to 7 gallons of water
- Type C: 1.4 Mix Design Gyp-Crete 2000 for renovation and commercial (must be used on all pours 1/2" or less):
 80 pounds Gyp-Crete 2000 (one bag)
 1.4 cubic feet of sand
 4 to 7 gallons of water

LIMITATIONS:

- 1. Underlayment is for interior use only.
- 2. Subflooring shall be structurally adequate to withstand the design live loads with a deflection limitation of L/360.
- 3. Underlayment requires a finish floor covering to prevent abrasion and to protect it from moisture.
- 4. Underlayment thickness shall not be less than the following:

Subfloor thickness, min.	Truss, beam or joist spacing	Minimum Gyp-Crete Thickness
19/32"	16" to 19" o.c.	3/4"
19/32"	over 19" to 24" o.	c. 1"

5. Underlayment shall not be used directly over metal door jambs or metal decks.

STORAGE AND HANDLING:

All materials shall be delivered in their original unopened packages, and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall not be used.

WARRANTY:

Maxxon Corp. warrants this product against defects due to materials or workmanship for a period of 5 years. Maxxon shall make allowance toward the restoration, repair or replacement of the defective material. The "Gyp-Crete Underlayment System" covered by this Materials Release (MR) shall be installed by Maxxon Corp., or by a company whose personnel have been trained by Maxxon Corp.

Maxxon Corp. shall not be responsible for any defects or damage due to misuse, or damage resulting from fire or natural catastrophes such as floods or tornados.

MANUFACTURER'S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits the manufacturer to fulfill, as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.

- 2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
- 3. When requested, provide the Office of Manufactured Housing and Regulatory Functions, Manufactured Housing and Construction Standards Division, HUD Headquarters, with a representative list of properties in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
- 4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

EVALUATION:

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to HUD Headquarters. Appropriate User Fees shall be sent to:

U. S. Department of Housing and Urban Development Technical Suitability of Products Fees P. O. Box 954199 St. Louis, MO 63195-4199

The holder of this MR may apply for revision at any time prior to the Review Date. The revision may be in the form of a supplement to the MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted in accordance with Code of Federal Regulations 24 CFR 200.934, "User Fee System for the Technical Suitability of Products Program," and current User Fee Schedule.

CANCELLATION:

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the MR. HUD will notify the manufacturer that the MR may be canceled when:

- 1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system,
- the manufacturer has changed its organizational form without notifying HUD, or

3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice of the specific reasons for cancellation, and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a cancelled document.